



E-Chrom Tech Co., Ltd.

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WEB: www.echromtech.com

B01- CT-8 Series Double Beam UV/Vis Spectrophotometer



Descriptions

- A. CT-8 Series are advanced double beam design consisting of two models; Stand-alone models: CT8200 with 1.8nm fixed bandwidth and CT8600 with 1.0 fixed bandwidth.
- B. The two detectors are measuring sample and reference respectively and simultaneously for optimizing measurement accuracy. They provide accurate measurement in the range of 190nm to 1100nm.
- C. All instruments provide excellent performance for measurements:
 - To Stand-alone models, all software methods are included as built-in standard, thus eliminating the need for software options.
 - On-line software upgrade capability via Internet helps to keep your software up-to-date.
 - Data Download-to-PC software expands the data storage to unlimited.
- D. This spectrophotometer is suitable for pharmaceutical, biochemical and clinical lab applications as well as routine applications such as quantitative analyses, kinetics, spectrum scanning, multiple components and DNA/Protein analysis.
- E. PC Windows® application software and built-in software make this instrument versatile.

Features

- A. Stand-alone models with large graphic LCD display (320 × 240) to directly show graphs on the screen.
- B. Unique pre-aligned deuterium lamp for easy lamp replacement to avoid optical adjustment.
- C. GLP self-calibrated function can automatically check wavelength and photometric accuracy using validation report.
- D. Powerful integrated software for data acquisition:
 - Quantitative
 - Kinetics
 - Wavelength Scanning
 - Multi-Wavelength
 - DNA/Protein
- E. Other features include:



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- System examination: Automatic wavelength check, automatic light filter detection, automatic energy detection, and other automatic functions.
- Photometric switch: Able to switch light source in the specific range.
- Photometric cutoff: Automatic cutoff of deuterium lamp and halogen lamp to extend their durability.
- Power failure protection: Research data can be saved and restored when there is power failure.
- Software: Application software can be connected to computer to control equipment operation and analyze experimental data.

Specifications

Model	CT-8200	CT-8600
Optical System	Double Beam, Grating 1200 lines/mm	
Wavelength Range	190-1100nm	190-1100nm
Spectral Bandwidth	1.8nm	1.0nm
Wavelength Accuracy	±0.3nm	
Wavelength Repeatability	0.2nm	
Photometric Accuracy	±0.2% T	
Photometric Repeatability	0.15% T	
Stray Light	<0.05% T	
Baseline Stability	±0.0005 A/h	
Baseline Flatness	±0.0005 A (200-1000nm)	
Display	LCD (320 × 240) & PC Model	LCD (320 × 240) & PC Model
Photometric Mode	T, A, E	
Scanning Speed	High, Med., Low., Max. 3000nm/min	
Wavelength Setting	Automatic	
Photometric Range	-0.3-3 A, 0-200% T, 0-9999 Conc.	
Detector	Si Photodiode	
Light Source	Halogen & Deuterium Lamp (pre-aligned)	
Keyboard	Membrane Keypad or PC	
Output	USB Port & Parallel Port (Printer)	
Power Requirement	AC 220V/50Hz or AC 110V/60Hz	
Dimensions (W × D × H)	600mm × 450mm × 200mm	
Weight	27Kg	27Kg



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Packing list

Spectrophotometer.....	1
Single cell holder for 10mm Squ. cuvette	1
Mains Lead.....	1
Cuvettes.....	Set of 4, glass
	Set of 2, quartz
USB Cord	1
User Manual.....	1
UV-Vis Analyst Software.....	1
Software Manual.....	1

Optional accessories

8-POSITION AUTO CELL CHANGER
CYLINDRICAL CELL HOLDER
TEST TUBE HOLDER (ø8-Ø22mm)
LONG PATH CELL HOLDER
MICRO CELL HOLDER
WATER-JACKETED CELL HOLDER
PELTIER/SIPPER SYSTEM
REFLECTANCE MEACHMENT ATTACHMENT
PRINTER



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B01- CT-5, CT-6 Series Single Beam UV/Vis Spectrophotometer



Descriptions

- A. CT-5,6 Series are advanced single beam design consisting of 5 models. Different one with different bandwidth and wavelength accuracy. All of them provide excellent performance for measurement in the range of 190nm to 1100nm.
- B. CT-5,6 series .
 - All software methods are included as built-in standard, thus eliminating the need for software options.
 - Online software upgrade via Internet helps to keep your software up-to-date.
 - Data Download-to-PC software expands the data storage to unlimited.
- C. The CT-5,6 series are suitable for clinical lab applications, pharmaceutical and biochemical as well as routine applications such as quantitative analyses, kinetics, wavelength scanning, multiple components and DNA/Protein analysis.
- D. PC Windows® application software and built-in software make this instrument versatile.

Features

- A. CT-5, CT-6 series with large graphic LCD display (320 × 240) to directly show graphs on the screen.
- B. Unique pre-aligned deuterium lamp for easy lamp replacement to avoid optical adjustment.
- C. GLP self-calibrated function can automatically check wavelength and photometric accuracy using validation report.
- D. Powerful integrated software for data acquisition:
 - Quantitative—Establish or use stored calibration equation to measure the concentration of unknowns.
 - Kinetics—Measurement of absorbance changing vs. time with reaction rate calculation function.
 - Wavelength Scanning—Spectrum scan of sample at any selected wavelength range with choice of scanning speed and wavelength interval.
 - Multi-Wavelength—Measurement at multiple wavelengths to analyze and determine the composition of mixtures.
 - DNA/Protein—Calculation of concentration and DNA purity. Ratio at other wavelengths can be measured.
- F. Other features include:



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- System examination: Automatic wavelength check, automatic light filter detection, automatic energy detection, and other automatic functions.
- Photometric switch: Able to switch light source in the specific range.
- Photometric cutoff: Automatic cutoff of deuterium lamp and halogen lamp to extend their durability.
- Power failure protection: Research data can be saved and restored when there is power failure.
- Software: Application software can be connected to computer to control equipment operation and to analyze experimental data.

Specifications

Model	CT-5100	CT-5700	CT-6200	CT-6400	CT-6600
Optical System	Single Beam, Grating 1200 lines/mm				
Wavelength Range	190-1100nm				
Spectral Bandwidth	4.0nm	2.0nm	1.8nm	0.5/1.0/2.0/4.0nm	1.0nm
Wavelength Accuracy	±0.5nm		±0.3nm		
Wavelength Repeatability	0.3nm		0.2nm		
Photometric Accuracy	±0.3% T		±0.2% T		
Photometric Repeatability	0.2% T		0.15% T		
Stray Light	<0.05% T				
Baseline Stability	±0.002 A/h		±0.001 A/h		
Baseline Flatness	±0.002 A (200-1000nm)		±0.001 A (200-1000nm)		
Display	LCD (320 × 240) & PC Model				
Photometric Mode	T, A, E				
Scanning Speed	High, Med., Low., Max. 3000nm/min				
Wavelength Setting	Automatic				
Photometric Range	-0.3-3 A, 0-200% T, 0-9999 Conc.				
Detector	Si Photodiode				
Light Source	Halogen & Deuterium lamp (pre-aligned)				
Keyboard	Membrane Keypad or PC				
Output	USB Port & Parallel Port (Printer)				
Power Requirement	AC 220V/50Hz or AC 110V/60Hz				
Dimensions (W × D × H)	480mm × 360mm × 160mm		600mm × 450mm × 200mm		
Weight	16Kg		25Kg		



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Packing list

Spectrophotometer.....	1
Mains Lead.....	1
4 cell holder for 10mm	1
Squ.cuvette	
Cuvettes.....	Set of 4, glass
	Set of 2, quartz
USB Cord	1
User Manual.....	1
UV-Vis Analyst Software.....	1
Software Manual.....	1

Optional accessories

SINGLE CELL HOLDER FOR 10MM SQU.CUVT.
CYLINDRICAL CELL HOLDER
TEST TUBE HOLDER (ø8-Ø22mm)
LONG PATH CELL HOLDER
4-CELL HOLDER FOR UP TO 50MM SQU.CUVETTE
4-CELL HOLDER FOR UP TO 100MM SQU.CUVETTE
MICRO CELL HOLDER
WATER-JACKETED CELL HOLDER
PELTIER/SIPPER SYSTEM
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B01- CT-2500~2800 Series Spectrophotometer



Descriptions

- A. CT-2500~2800 Series are developed for precise test for its stray light is only 0.05% T.
- B. This series have benefits of flexible, user-friendly, and maximized value. The value is evident from the performance provided every day.
- C. The local stand-alone software provides functions of basic model, quantitative test, kinetics, and system utilities.
- D. System can save research results up to 200 group of data and 200 curves in the RAM for random check and reload.

Features

- A. Large graphic LCD display (128 × 64) to directly show graphs on the screen, displaying a total of 200 groups of data, 5 groups per screen.
- B. Pre-aligned deuterium lamp for easy lamp replacement to avoid optical adjustment.
- C. Automatically check wavelength and photometric accuracy using validation report.
- D. Powerful integrated software for data acquisition:
 - Quantitative
 - Kinetics
 - Wavelength Scanning
- F. Other features include:
 - System examination: Automatic wavelength check, automatic light filter detection, automatic energy detection, and other automatic functions.
 - Photometric cutoff: Automatic cutoff of deuterium lamp and halogen lamp to extend their durability.
 - Power failure protection: Research data can be saved and restored when there is power failure.
 - Software: Application software can be connected to computer to control equipment operation and to analyze experimental data.



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Specifications

Model	CT-2500	CT-2700	CT-2600	CT-2800
Optical System	Single Beam, Grating 1200 lines/mm			
Wavelength Range	320-1100nm		190-1100nm	
Spectral Bandwidth	4nm	2nm	4nm	2nm
Wavelength Accuracy	±0.5nm			
Wavelength Repeatability	0.3nm			
Photometric Accuracy	±0.3% T			
Photometric Repeatability	0.2% T			
Stray Light	0.05% T (360nm)		0.05% T (220nm, 360nm)	
Baseline Stability	±0.002 A/h (500nm)			
Display	LCD (128 × 64)			
Photometric Mode	T, A, E			
Wavelength Setting	Automatic			
Photometric Range	-0.3-3 A, 0-200% T			
Detector	Si Photodiode			
Light Source	Tungsten lamp		Tungsten & Deuterium	
Keyboard	Membrane Keypad			
Output	USB Port & Parallel Port (Printer)			
Power Requirement	AC 220V/50Hz or AC 110V/60Hz			
Dimensions (W × D × H)	470mm × 370mm × 180mm			
Weight	14Kg		16Kg	

Packing list of CT-2600 and CT-2800

Spectrophotometer.....	1
Mains Lead.....	1
Cuvettes.....	Set of 4, glass Set of 2, quartz
Common software & User Manual	1
4 cell holder for 10mm SQ.cuvette	1

Packing list of CT-2500 and CT-2700

Spectrophotometer.....	1
Mains Lead, 4 cell holder .	1
Cuvettes.....	Set of 4, glass
Common software & User Manual	1

Optional accessories

SINGLE CELL HOLDER FOR 10MM SQU.CUVT.
CYLINDRICAL CELL HOLDER
TEST TUBE HOLDER (ø8-ø22mm)
LONG PATH CELL HOLDER
4-CELL HOLDER FOR UP TO 50MM SQU.CUVETTE
4-CELL HOLDER FOR UP TO 100MM SQU.CUVETTE
MICRO CELL HOLDER
WATER-JACKETED CELL HOLDER
PELTIER/SIPPER SYSTEM
PRINTER
ADVANCED PC WINDOW SOFTWARE



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B01- CT-2300/CT-2400 Series Spectrophotometer



Descriptions

- A. CT-2300 and CT-2400 series spectrophotometer have attractive performance for general data. As long as you use your standard sample solution, you can get a standard curve on the large LCD screen by local control software. In addition, you can print the curve through USB or analog port.
- B. Functions of this instrument include:
- Basic model—Absorbance, transmittance, or concentration measurement.
 - Quantitative
 - a) Standard Curve—At least 9 standard samples can be used to establish a standard curve. The curve and the curve equation will be displayed on the screen simultaneously to measure concentration of unknown solutions by the curve.
 - b) Coefficient Method—If you have known the coefficient of k & b of the formula $C=kA+b$, you can input the value and then test the unknown solutions.
- C. This instrument has been widely used in colleges and enterprises for general quantitative analysis and experiments.

Features

- A. Large graphic LCD display (128×64) to directly show graphs on the screen, displaying a total of 50 groups of data and being able to save the research data.
- B. Pre-aligned deuterium lamp for easy lamp replacement to avoid optical adjustment.
- C. Power failure protection: Research data can be saved and restored when there is power failure.
- D. Automatically check wavelength and photometric accuracy using validation report.
- E. Powerful integrated software for data acquisition for basic measurement and analysis.
- F. Other features include spectrum test, wavelength check, standard curve, and application software.



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Specifications

Model	CT-2300	CT-2400
Optical System	Single Beam, Grating 1200 lines/mm	
Wavelength Range	325-1000nm	200-1000nm
Spectral Bandwidth	4nm	
Wavelength Accuracy	±1nm	
Wavelength Repeatability	0.5nm	
Photometric Accuracy	±0.5% T	
Photometric Repeatability	0.3% T	
Stray Light	0.3% T	
Baseline Stability	±0.002 A/h (500nm)	
Display	LCD (128 × 64)	
Photometric Mode	T, A, E	
Wavelength Setting	Automatic	
Photometric Range	-0.097-2.5 A, 0-125% T	
Detector	Si Photodiode	
Keyboard	Membrane Keypad	
Light Source	Tungsten lamp	Tungsten & Deuterium
Output	USB Port & Parallel Port (Printer)	
Power Requirement	AC 220V/50Hz or AC 110V/60Hz	
Dimensions (W × D × H)	480 x 360 x 160mm	
Weight	11Kg	12Kg

Packing list of CT-2400

Spectrophotometer.....	1
Mains Lead.....	1
4 cell holder for 10mm sq.cuvette	1
Cuvettes.....	Set of 4, glass Set of 2, quartz
Common software & User Manual	1

Optional accessories

SINGLE CELL HOLDER FOR 10MM SQU.CUVT.
CYLINDRICAL CELL HOLDER
TEST TUBE HOLDER (ø8-ø22mm)
LONG PATH CELL HOLDER
4-CELL HOLDER FOR UP TO 50MM SQU.CUVETTE
4-CELL HOLDER FOR UP TO 100MM SQU.CUVETTE
PRINTER

Packing list of CT-2300

Spectrophotometer, comm.software	1
Mains Lead, 4 cell holder for 10mm SQ.	1
Cuvettes glass set of 4	1



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B01- CT-1500/CT-2200 Spectrophotometer



CT-1500



CT-2200

Descriptions

- A. CT-1500 is the only style of manual-setting wavelength function among CT spectrophotometers. Its precise design and high quality components ensure excellent performance.
- B. Because of its convenience this instrument has been widely used in high schools and colleges for general analysis and experiments.

Features

- A. High quality silicon photometric diode detector and 1200 lines/mm grating ensure high accuracy and precision.
- B. Digital display for easy readout.
- C. Pre-aligned deuterium lamp for easy lamp replacement to avoid optical adjustment.
- D. Auto zero setting for easy use and simple switch to transmittance, absorbance and concentration models.
- E. With RS-232C port, data can be exported to printer directly.
- F. Optional software based on Windows® can extend the application to standard curve and kinetics through the RS-232C port.

Besides features mentioned above, CT-2200 contains other features include:

- A. Large LCD display (128 × 64)
- B. Able to display and save 50 groups of data, 5 groups per screen.
- C. Data can be saved and restored when there is sudden power failure.
- D. Three-point method to measure concentration of unknown samples.
- E. Tungsten lamp & deuterium lamp can be turned on/off individually to extend lifetime.



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Specifications

Model	CT-1500	CT-2200
Optical System	Single Beam, Grating 1200 lines/mm	
Wavelength Range	325-1000nm	200-1000nm
Spectral Bandwidth	5nm	4nm
Wavelength Accuracy	±2nm	±1nm
Wavelength Repeatability	1nm	0.5nm
Photometric Accuracy	±0.5% T	
Photometric Repeatability	0.3% T	
Stray Light	0.5% T	0.3% T
Baseline Stability	±0.004 A/h (500nm)	±0.002 A/h (500nm)
Display	3.5 bits LCD	LCD (128 × 64)
Photometric Mode	T, A, E	
Wavelength Setting	Manual	Automatic
Photometric Range	-0.097-1.999 A, 0-125% T	-0.3-3A, 0-200% T
Detector	Si Photodiode	
Light Source	Tungsten lamp	Tungsten & Deuterium
Keyboard	Membrane Keypad	
Output	RS-232C Port	USB Port & Parallel Port (Printer)
Power Requirement	AC 220V/50Hz or AC 110V/60Hz	AC85~250V
Dimensions (W × D × H)	480mm × 360mm × 160mm	420mm × 280mm × 180mm
Weight	8Kg	15Kg

Packing list of CT-2200

Spectrophotometer.....	1
Mains Lead.....	1
4 cell holder for 10mm SQ.cuvette	1
Cuvettes.....	Set of 4, glass Set of 2, quartz
Common software, User Manual.	1

Packing list of CT-1500

Spectrophotometer.....	1
Mains Lead.....	1
Cuvettes.....	Set of 4, glass
4 cell holder for 10mm SQ.cuvette	1
Common Software, User manual	1

Optional accessories

SINGLE CELL HOLDER FOR 10MM SQU.CUVT.
CYLINDRICAL CELL HOLDER
TEST TUBE HOLDER (ø8-ø22mm)
LONG PATH CELL HOLDER
4-CELL HOLDER FOR UP TO 50MM SQU.CUVETTE
4-CELL HOLDER FOR UP TO 100MM SQU.CUVETTE
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Model	Optical System	Wavelength Range	Spectral Bandwidth	Kinetics	DNA/ Protein	Scanning	Display	PC Software
CT-8600	Double Beam	190~1100nm	1nm	○	○	○	LCD 320*240	Analyst Software
CT-8200	Double Beam	190~1100nm	1.8nm	○	○	○	LCD 320*240	Analyst Software
CT-6600	Single Beam	190~1100nm	1nm	○	○	○	LCD 320*240	Analyst Software
CT-6400	Single Beam	190~1100nm	0.5/1.0/2.0/4.0nm	○	○	○	LCD 320*240	Analyst Software
CT-6200	Single Beam	190~1100nm	1.8nm	○	○	○	LCD 320*240	Analyst Software
CT-5700	Single Beam	190~1100nm	2nm	○	○	○	LCD 320*240	Analyst Software
CT-5100	Single Beam	190~1100nm	4nm	○	○	○	LCD 320*240	Analyst Software
CT-2800	Single Beam	190~1100nm	2nm	○	X	X	LCD 128*64	Common Software
CT-2600	Single Beam	190~1100nm	4nm	○	X	X	LCD 128*64	Common Software
CT-2400	Single Beam	200~1000nm	4nm	X	X	X	LCD 128*64	Common Software
CT-2200	Single Beam	200~1000nm	4nm	X	X	X	LCD 128*64	Common Software
CT-2700	Single Beam	320~1100nm	2nm	○	X	X	LCD 128*64	Common Software
CT-2500	Single Beam	320~1100nm	4nm	○	X	X	LCD 128*64	Common Software
CT-2300	Single Beam	325~1000nm	4nm	X	X	X	LCD 128*64	Common Software
CT-1500	Single Beam	325~1000nm	5nm	X	X	X	3.5 bits LCD	Common Software